

JOKANOVIC, B., prof. inż.; AMEL, J., dipl. inż.

Symposium on the Protection of Respiratory Organs from the
Medical and Technical Viewpoint; Leipzig, 1964. Rudar glasnik
4:84-85 '64.

JOKANOVIC, Dobrivoje; RAJS, Jovan

Fetal bones in medicolegal practice. Srpski arch. celok. lek.
91 no.11:1047-1054 N°63

1. Institut za sudsku medicinu Medicinskog fakulteta Univerzitetu u Beogradu. Upravnik: prof. dr. Julijana Bogicevic.

*

Jokanovic, D.

NESKOVIC, Blagoje; DJORDJEVIC, Rusomir; OPRIJAN, Milenko; VASILIC, Momcilo;
JOKANOVIC, Dobrivoje

Personal results in determination of blood stains and in obtaining
serum precipitate. Srpski arh. celok. lek. 85 no. 4:397-410 Apr 57.

1. Institut za sudsku medicinu Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Julijana Bogicevic.

(BLOOD

blood stains, determ. technics (Ser))

JOKANOVIC, Dobrivoje, dr; PEJAKOVIC, Samuilo, dr

Alcoholism and its development in children. Med.glasn. 14 no.7/8:
368-371 J1-Ag '60.

1. Institut za sudsku medicinu Medicinskog fakulteta u Beogradu
(Upravnik: prof. dr J.Bogicevic)
(ALCOHOLISM in inf & child)

JOKANOVIC, Dobrivoje, dr., doc.; HRISTIC-SOJIC, Ljubica, dr.

Accidental poisoning with silver nitrate during therapy. Med. glas. 15 no.9/10:423-424 0 '61.

1. Institut za sudsku medicinu Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr J. Bogicevic).

(SILVER NITRATE toxicol)

HRISTIC, Bisenija; JOKANOVIC, Dobrivoje

Distribution of phenobarbital in experimental poisoning in guinea pigs. Srpski arh. celok. lek. 89 no.2:191-196 F '61.

1. Institut za susdsku medicinu Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Julijana Bogicevic.

(PHENOBARBITAL toxicol)

BOGICEVIC, Lulijana; JOKANOVIC, Dobrivoj; STUIAR, Petar

Fatal cases of magnesium sulfate poisoning in the treatment of taeniasis. Srpski arh. celok. lek. 89 no.12:1413-1423 D '61.

1. Institut za sudsku medicinu Medicinskog fakulteta Univerziteta u Beogradu Upravitelj: prof. dr Lulijana Bogicevic.

(TAPEWORM INFECTION ther)
(MAGNESIUM SULFATE toxicol)

DJORIC, Lj., doc. dr; JOKANOVIC, D., doc. dr

Foreign bodies left in the body during the course of therapy. Med. glas.
16 no.1:14-19 Ja '62.

1. Klinika za ortopedsku hirurgiju i traumatologiju Medicinskog fakulteta u Beogradu (Upravnik: prof. dr Sv. Stojanovic) Institut za sudsku medicinu Medicinskog fakulteta u Beogradu (Upravnik: prof. dr J. Bogicevic)

(SURGERY OPERATIVE compl)

YUGOSLAVIA

Milenko OPRIJAN and Dobrivoje JOKANOVIC, Department of Forensic Medicine,
Medical Faculty (Institut za sudsku medicinu Medicinskog fakulteta)
Head (upravnik) Prof Dr Julijana BOGICEVIC, University of Belgrade.

"Physicians' Attitudes Toward Errors Committed During Treatment."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 90, No 5, May 1962;
pp. 535-539.

Abstract [English summary modified]: A discussion of what is the proper attitude and resultant behavior of physicians following errors during therapy. Three illustrative case reports, whereof two fatal: two uterine perforations during dilatation and curettage, and one ureteral ligation during excision of ovarian cyst. Stresses need for complete documentation including necropsy data in all cases.

OPRIJAN, Milenko; JOKANOVIC, Dobrivoje; MILENKOVIC, Petar

Is this child murder? Srpski arh. celok. lek. 91 no.1:95-98
Ja '63.

1. Institut za sudsku medicinu Medicinskog fakulteta Uni-
verzitetu u Beogradu Upravnik: prof. dr. Lulijana Bogicevic
Neurohirurska klinika Medicinskog fakulteta Univerziteta u
Beogradu Upravnik: prof. dr. Slobodan Kostic.
(ABNORMALITIES) (JURISPRUDENCE)
(INFANTICIDE)

5

JOKANOVIC, Rosanda; KRSTIC, Klimentije; NIKEZIC, Marija.

Neurofibromatosis with scoliosis and growth retardation in a 12-year-old girl. Srpski arh. celok. lek. 91 no.10:987-992 0*63.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu (upravnik: prof. dr. Borivoje Tasovac) i Decja hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu (v.d.upravnika: doc. dr. Ilija Stojimirovic).

5

JOKANOVIC, R.

CUPIC, V.; JOKANOVIC, R.

Short review of the problem of social and medical protection of
diabetic children. Med. glasn. 11 no. 6: 218-221 June 57.

1. Doc. ar Vukan Cupic i ar Rosanda Jokanovic, Beograd.
(DIABETES MELLITUS, in inf. & child
prev. & ther., med.-social aspects (Ser))

JOKANOVIC, Rosanda, dr.; VOLF, Nikola

Acute alcoholic intoxication in children. Med. glasn. 13 no.10:
505-508 0 '59.

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu, Upravnik:
prof. M. Ambrozic; Neuropsihijatrijska klinika Medicinskog fakulteta
u Beogradu, Upravnik: prof. dr U. Jekic.
(ALCOHOLIC INTOXICATION in inf. & child)

SOLARIC, Stojan; JOKANOVIC, Rosanda; KAPETANOVIC, Ilija

Fibroelastosis of the endocardium in a 12-year-old child. Srpski
arh. celok. lek. 87 no.9:825-831 S '59.

1. Patolosko-anatomski institut Medicinskog fakulteta u Beogradu,
upravnik: prof. dr Zivojin Ignjacev; Decja klinika Medicinskog
fakulteta u Beogradu, upravnik: prof. dr Matija Ambrozic.
(ENDOCARDIAL FIBROELASTOSIS in inf. & child)

NESIC, Bogoslava, dr.; JOKANOVIC, Rosanda, dr.

Our experiences with depot-penicillin in the prevention of recurrences of rheumatic disease. Med. glasn. 15 no.9/10:411-412 0 '61.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu. (Upravnik: prof. dr B. Tasovac).

(PENICILLIN ther) (RHEUMATIC FEVER ther)

JOKANOVIC, Rosanda; MANDIC, Ivka

Mauriac's syndrome. Srpski arh. celok. lek. 89 no.4:465-470 Ap '61.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Borivoje Tasovac.

(DIABETES MELLITUS in inf & child)

STANKOVIC, Ivan, prof., dr.; JOKANOVIC, Rosanda

Modifications in the organs of vision in diabetes in children. Preliminary communication. Srpski arh. celok. lek. 89 no.5:577-583 My '61.

1. Klinika za bolesti ociju Medicinskog fakulteta Univerziteta u Beogradu. V.d. upravnika: prof. dr Ivan Stankovic. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Borivoje Tasovac. 2. Clan Uredivackog odbora, "Srpski arhiv za celokupno lekarstvo" (for Stankovic).

(DIABETES MELLITUS in inf & child) (EYE)

JOKANOVIC, R., dr; NIKEZIC, Marija, dr

Treatment of diabetic coma in children. Med. glas. 16 no.2:75-79
F '62.

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu (Upravnik:
prof. dr B. Tasovac)

(DIABETIC COMA in inf & child)

5

JOKANOVIC, Rosanda; VUKCEVIC, Borka

On infectious mononucleosis in children. Srpski arh. celok.
lek. 90 no.2:149-154 F '62.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u
Beogradu Upravnik: prof. dr. Borivoje Tasovac.
(INFECTIOUS MONONUCLEOSIS in inf & child)

S

JOKANOVIC, Rosanda; BAJEC, Dusan

Acute pancreatitis following parotitis in a 4-year-old child.
Srpski arh. celok. lek. 91 no.12:1229-1232 D '63.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu
(Upravnik: prof. dr. Borivoje Tasovac); Decja hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu (V.d. upravnika: prof. dr. Borivoje Tasovic).

YUGOSLAVIA

JOKANOVIC, Rosanda; STOJIMIROVIC, Emilija; and POPOVIC, Streten, Pediatric Clinic of Medical Faculty of the University (Pedijatrijska Klinika Medicinskog Fakulteta Univerziteta), Head (Upravnik) Prof Dr Borivoje TASOVAC, and Children's Surgical Clinic (Decja Khirurska Klinika Medicinskog Fakulteta Univerziteta), Head (Upravnik) Prof Dr Klimentije KRSTIC, Belgrade

"Post-Traumatic Pseudocyst of the Pancreas in a Child"

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 94, No 4, Apr 66; pp 385-389

Abstract: Case history of a boy aged 14 with a pancreatic cyst following a bicycle accident; diagnostic difficulties were eventually resolved by operative treatment and uneventful recovery. 2 roentgenograms, 1 Yugoslav, 8 Western references. Manuscript received 13 Jul 65.

1/1

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JOKAY, Istvan

KOCSAR, László; JOKAY, Istvan; SIMON, Miklós

Direct polarographic determination of isonicotinic acid hydrazide
in urine. Kísérletes orvostud. 6 no.4:313-316 July 54.

1. Debreceni Orvostudományi Egyetem ^{*Pálfi György Intézet*} Kísérleti Intézete és Bor-és
Nemi Kórtani Klinikája.

(NICOTINIC ACID ISOMERS, in urine
isoniazid, determ., polarography)

(URINE
isoniazid, determ., polarography)

KESZTYUS, Lorand,; KOCSAR, Laszlo,; JOKAY, Istvan,; SZATAI, Inre.

Water and salt content of the lung in vagus pneumonia. Kiserletes
orvostud. 7 no.5:469-475 Sept 55.

1. Debreceni Orvostudományi Egyetem Korelettani Intézete.

(PNEUMONIA, experimental

caused by vagotomy in cats, electrolyte determ.)

(ELECTROLYTES, determination

in lungs, in exper. pneumonia caused by vagotomy in cats)

(NERVES, VAGUS, surgery

vagotomy, exper., causing pneumonia in cats, relation to
electrolyte metab. in lungs)

JOKAY, I.

The water and salt content of vagus-pneumonic lungs.
L. Kesztyus, L. Kocsár, I. Jókay, and I. Sántal (Med.
Univ., Debrecen). *Acta Physiol. Acad. Sci. Hung.* 8, 237-46 (1965) (in German).—Data from 43 cats establish
that bilateral cervical vagotomy results in typical lung in-
flammation in which the H_2O , Na, and Cl content of the lung
increase considerably while the K decreases and the Ca re-
mains constant. Normal H_2O , Na, and Cl levels are again
attained by serous infiltration and edema. When severing
the vagus results only in stasis, the water and salt content
of the lung is nearer normal value. In both cases the Ca
concn. in the blood serum is not significantly altered while
the NaCl concn. is reduced. Henry B. Bastin.

IMD

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BOT, Gy.; JOKAY, I.

Formation of muscle phosphorylase in homogenate. Acta physiol. hung.
11(Suppl):34-35 1957.

1. Pathophysiologisches Institut der Medizinischen Universität,
Debrecen.

(MUSCLES, metab.

phosphorylase activation in homogenates (Ger))

(PHOSPHORYLASES

in musc., activation in homogenates (Ger))

JOKAY, I.

BOT, Gy.; JOKAY, I.

Conditions of phosphorylase a formation and conversion in muscle homogenate. Acta physiol. hung. 11 no.3-4:427-431 1957.

1. Pathohistologisches institut der medizinischen universitat, Debrecen.

(PHOSPHORYLASES

a form. & conversion into b under influence of adenylypyrophosphate in musc. homogenates (Ger))

(MUSCLES, metab.

phosphorylase a form. & conversion into b under influence of adenylypyrophosphate in homogenates (Ger))

(ADENYLYPYROPHOSPHATE, eff.

role in phosphorylase a form. & conversion into b in musc. homogenates (Ger))

KESZTYUS, L.; SZABO, E.; BOT, Gy.; JOKAY, I.

Symptomatology of the Shwartzman phenomenon. Acta microb. hung. 5
no.2:209-216 1958.

1. Pathophysiologisches Institut der Medizinischen Universitat,
Debrecen.

(ALLERGY,

Shwartzman phenomenon, sympt. (Ger))

JOKAY, Istvan

BCT, Gyorgy; JOKAY, Istvan

Conditions of phosphorylase a formation and conversion in muscle homogenates. Kiserletes orvostud 9 no.5-6:520-526 Oct-Dec 58.

1. Kiselettani Intezet, Debrecen.

(PHOSPHORYLASES

a, cond. of form. & conversion in musc. homogenates (Hun))

(MUSCLES, metab.

phosphorylase a form. & conversion, cond. in homogenates (Hun))

KESZTYUS, Lorand; SZABO, Endre; BOT, Gyorgy; JOKAY, Istvan

Data on the symptomatology of the Schwartzman phenomenon. Kiserletes
orvostud. 10 no.2-3:305-310 Apr-June 58.

1. Debreceni Orvostudományi Egyetem Koreláttni Intezete.

(ALLERGY, exper.

Shwartzman phenomenon, metab. changes in (Hun))

EXCERPTA MEDICA Sec 2 Vol 12/11 Physiology Nov 59

5087. ANTIGENIC PROPERTIES OF MUSCLE PHOSPHORYLASE - Az izom-
foszforiláz antigéntulajdonságai - Jókay I., Bor G. and Szilágyi T.
Debreceni Orvostud. Egyet. Közleményei - KISÉRL. ORVOSTUD. 1958,
10/4 (391-396) Graphs 2 Tables 1

Phosphorylase was prepared from the thoracic muscle of the cock. Rabbits were
immunized with this enzyme, and antigens from the rabbits' blood precipitated and
inactivated phosphorylase again. Den Hartog Jager - Amsterdam (II, 4*)

JÓKAY I.
EXCERPTA MEDICA Sec 2 Vol 12/3 Physiology Mar 59

1073. ANTIGEN PROPERTIES OF MUSCLE PHOSPHORYLASE - Die Antigen-eigenschaften der Muskelphosphorylase - Jókay I., Bol G. and Szilágyi T. Pathophysiol. Inst., Med. Univ., Debrecen - ACTA PHYSIOL. ACAD. SCI. HUNG. 1958, 14/2 (155-161) Graphs 2 Tables 1

Phosphorylase prepared from the heart muscle of the cock was used for immunization of the rabbit. The antibodies so obtained were used in the experiments. The antibodies precipitated and inhibited the muscle phosphorylase-a and -b of the cock but also of the pigeon and of the duck, but not the muscle phosphorylases of the mammals. There was only a small inhibition of cock heart muscle phosphorylase and no inhibition of liver phosphorylase and muscle mutase. The inhibition was not caused by competition.

(II, 19)

JOKAY, I.

HUNGARY

VARGA, E.; KOVER, A.; KOVACS, T.; JOKAY, I.; SZILAGYI, T.; Medical University of Debrecen, Institute of Physiology and Pathology (Debreceni Orvostudományi Egyetem Élettani és Kóreltani Intézete)

"Differentiation of Myosins Extracted From Tonic and Tetanic Muscles Based on Their Antigenic Properties."

Budapest, Kiserletes Orvostudomány, Vol XIV, No 6, 1962, pp 593-599.

Abstract: [Authors' summary] Based on immunological determinations, the authors concluded that

1. myosin is a class-specific antigen,
2. the myosin which exhibits a relatively high cholinesterase and a low adenosinetriphosphatase activity and is obtained from tonic muscles had a structure different from that of the myosin obtained from tetanic muscles.

[Of 25 references, about 9 are Soviet-bloc, 16 Western]

1/1

VARGA, E.; KOVER, A.; KOVACS, T.; JOKAY, I.; SZILAGYI, T.

Differentiation of myosins extracted from tonic and tetanic muscles on the basis of their antigenic properties. Acta physiol. acad. sci. hung. 22 no.1:21-28 '62.

1. Institute of Physiology and Institute of Pathophysiology, Medical University, Debrecen.

(ADENOSINE TRIPHOSPHATASE) (ANTIGENS) (MUSCLES)

VARGA, E.; KOVER, A.; KOVACS, T.; SZABOLCS, M.; JOKAY, I.

The myosin structure of the different types of muscle. Acta physiol. acad. sci. hung. 22 no.2:119-123 '62.

1. Institute of Physiology, Central Research Laboratory, Institute of Pathophysiology, Medical University, Debrecen.
(ADENOSINE TRIPHOSPHATE) (MUSCLES)

HUNGARY

JOKAY, Istvan; Institute of Pathophysiology (director: KESZTYUS, L.), University Medical School, Debrecen [original language version not given].

"Quantitative Precipitation and Enzyme Inhibition by Antiphosphorylase."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol X, No 2, 1963, pages 163-173.

Abstract: [English article, author's English summary modified] The quantitative precipitation and enzyme inhibition by homologous antisera, prepared against crystalline rabbit muscle phosphorylase b, have been analyzed. It has been shown that, when the relative inhibition is under 66 per cent, the inhibiting effect of the sera is proportional to the antibody content. The inhibiting action of the sera was expressed in antiphosphorylase units. As compared to the amount neutralized at the equivalence point, in case of excess antigen the same amount of antiserum was able to inhibit the activity of a two-fold amount of phosphorylase. The correlation between enzyme inhibition and the precipitating antibody content of the sera was approximate only. The causes of this phenomenon are discussed. 1 Hungarian, 8 Western references.

1/1

VARGA, Emil; KOVER, Andras; KOVACS, Tibor; SZABOLCS, Marton; JOKAY, Istvan

Some new data on the myosin structure of muscles of various types of muscles. Kiserl. orvostud. 15 no.1:46-50 F '63.

1. Debreceni Orvostudományi Egyetem Eletti Intezete, Kozponti Kutato
Laboratoriuma es Koreletti Intezet.
(MUSCLES) (ADENOSINE TRIPHOSPHATASE)

JOKAY, I.; KISS, Antonia

Plasma phosphatase, cholinesterase and peptonase in anaphylactic shock. Acta microbiol. acad. sci. Hung. 10 no.2:175-181 '63.

1. Institute of Pathophysiology (Director: L. Kesztyus), University Medical School, Debrecen.

(PLASMA) (CHOLESTERINASE) (PEPTONES)
(ANAPHYLAXIS) (BLOOD ACID PHOSPHATASE)
(BLOOD ALKALINE PHOSPHATASE) (BLOOD)
(PEPTIDE HYDROLASES)

JOKAY, I.; KISS, Antonia; KASSAI, L.

Effect of cysteine on local Shwartzman phenomenon. Acta microbiol.
acad. sci. Hung. 11 no.1:29-33 '64.

1. Institute of Pathophysiology (Director: L. Kesztyus), University
Medical School, Debrecen.

I, 37930-66

ACC NR: AP6028500

SOURCE CODE: HU/0018/65/017/006/0666/0667

AUTHOR: Toth, Sander--Tot, S.; Jokay, Istvan--Yokai, I. 12

ORG: Institute of Pathophysiology, Medical University of Debrecen (Debreceni Orvostudományi Egyetem, Korelettani Intézet)

TITLE: Simple method for taking into account the blood content of organs in the determination of tissue components also present in blood 22

SOURCE: Kiserletes orvostudomány, v. 17, no. 6, 1965, 666-667

TOPIC TAGS: hematology, histology, blood circulation, hemoglobin

ABSTRACT: A method is reported for the estimation of the blood content of organs on the basis of the known method of blood oxyhemoglobin determination. By means of this, we can determine more accurately in the various organs and tissues the amount of those components which are present, in another concentration, in the blood. Orig. art. has: 1 figure. [JPRS: 34,161]

SUB CODE: 06 / SUBM DATE: 19Mar65 / ORIG REF: 001 / OTH REF: 001

Card 1/1 mcp

THURZO, Gyorgy; JOKAY, Kornel

Preparation of vinyl acetate from gas mixtures containing acetylene in small quantity. Magyar folyoir 66 no.10:383-386 0 '60.

1. Szervesvegyipari es Muanyagipari Kutato Intezet, Budapest.

BITE, Pal; JOKAY, Laszlo; PONGRACZNE STERK, Lili

Newer results concerning steroid compounds isolated from
Solanum laciniatum; a preliminary communication. Magyar
folyoir 68 no.12:555 D '62.

1. Gyogyszeripari Kutato Intezet, Budapest.

MARKUS, Stefan; JOKEĽ, Jozef

Interaction of gamma radiation with wood substance.. Drevarksy
vyskum no.1:7-18 '64.

1. State Institute of Wood Research, Bratislava.

JOKEL, J.

Trees help in discovering uranium ore deposits. Drevo 19 no.12:
467 D '64.

JOKES, Miroslav

Determination of the economic effectiveness of the new technology.
Chem prum 14 no.4:169-171 Ap '64.

1. Research Institute of Macromolecular Chemistry, Brno.

JOKI, E.: SIPHAL, H.

Italy III. Brickmaking; based on the Locatelli system. p. 421

STAVIVO (Ministerstvo stavebnictvi) Vol. 34, No. 11, Nov. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

SIROTANOVIC, Ksenija; JOKIC, Anka

Synthesis of the mixed bis-compounds of the aldehydes and ketones.
IV. Synthesis of aryliden-phenylmercaptourethanes. Glas Hem dr
25/26 no.1/2:97-102 '61.

1. Faculty of Science, Institute of Chemistry, Beograd.

(Aldehydes) (Ketones)

JOKIEL, J.

"First action for Obtaining Summer Fecundated Roe of Trout from the Lower Vistula River." p. 9, (GOSPODARKA RYBNA, Vol. 5, no. 8, Aug. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

JOKIEL, J.

"Fishing for Wisla (Vistula) Salmon in Danzig Province in 1952."
P. 3, (GOSPODARKA RYBNA, Vol. 5, No. 10, Oct. 1953. Warszawa,
Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954. Uncl.

JOKIEL, J.

"Project of a New Type of Scale Beam for Weighing Small Fish."
P. 17, (GOSPODARKA RYBNA, Vol. 5, No. 12, Dec. 1953. Warszawa,
Poland.)

SO: Monthly List of East European Accessions, (EEA), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

DABROWSKI, Otton, doc. dr inz; JOKIEL, Mieczyslaw, mgr inz.

Truss buckling as a typical example of wooden roof
structure failures. Inz i bud 21 no.8:277-280 Ag '64.

1. Technical University, Wroclaw.

JOKL, E.; SIRHAL, H.

JOKL, E.; SIRHAL, H. The German Federal Republic. II. Visit to a brickyard. p. 68

Vol. 34, no. 2, Feb. 1956

STAVIVO

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

JOKL, E.; SIRHAL, H.

JOKL, E.; SIRHAL, H. Italy. I. Brickmaking; from trips abroad. p. 333.

Vol. 34, no. 9, Sept. 1956

STAVIVO

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

Jokl, E.

Jokl, E. The German Federal Republic; an automatic conveyor for transporting finished roof tiles. p. 33.

Vol. 35, no. 1, Jan. 1957

STAVIVO

TECHNOLOGY

Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

JOKL, J.

New modification of Vernon's globe thermometer. Cesk. lig. 9 no.9:
579-584 0 '64.

1. Ustav hygieny prace a chorob z povolani, Praha.

JCKL, Jan

Use of large surface materials in pattern shops. Slevarenstvi
12 no.4:144-145 Ap '64.

1. Prvni brnenska strojirna Zavody Klementa Gottwalda,
Brno.

JOKL, J.; MIKULOVA, B.; SEBENDA, J.

On the structure and properties of polyamides. Pt. 7. Coll
Cz Chem 28 no. 12:3239-3244 D '63.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy
of Sciences, Prague.

JOKL, J.

On the structure and properties of polyamides. Pt. 7.
Coll Cz Chem 28 no. 12:3305-3310 D '63.

1. Institute of Macromolecular Chemistry, Czechoslovak
Academy of Sciences, Prague.

YOKL' [J.]

CZECHOSLOVAKIA/Analytical Chemistry/ Organic Analysis.

Abs Jour: Ref. Zhur-Khimiya, No 12, 1958, 39440.

Author : Yokl'.

Inst : Not given.

Title : The Conditions For An Electrophoretic Separation
of Alkaloids.

Orig Pub: Geskosl. farmac., 1957, 6, No 8, 432-436.

Abstract: The electrophoretic mobility of weak acids and bases is considered from a standpoint of the Broenstadt's theory. It is shown that the acids have a greater μ than the bases, that μ depends on pH and to a lesser degree on the ionic strength of the buffer solution. The experimentally found curves for pilocarpine, quinine, paraverine, codeine, morphine, strychnine, brucine, cocaine and atropine agree well with

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of E-3
Organic Substances.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1032.

Author : Frano, J., Jokl, J.
Inst : ~~Not given.~~ ^{Uzk. Inst. Org. Synt., Pardubice-Rybitvi, Czech.}
Title : Spectrochromatography. I. The Determination of
Isomeric Xylols by a Gas-Liquid Chromatography
Method.

Orig Pub: Chem. listy, 1958, 52, No 2, 276-282.

Abstract: A device is described which enables one to deter-
mine quantitatively such mixtures which cannot be
separated into all components chromatographically.
The separation can be accomplished by the above
device by combining gas-liquid chromatography with
UV spectrophotometry. Individual fractions leaving
the chromatograph with a carrier gas enter a sil-
ver coated glass cell equipped with quartz windows

Card 1/2

JOKL, Jan

Distr: 4E3d 21
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2024. WORKING CONDITIONS IN FREEZING PLANTS, WITH SPECIAL REGARD TO TEMPERATURE AND TECHNICAL ASPECTS - Tepelné technické podmínky práce v mrazárnách - Jokl M. Úst. Hyg. Práce Chor. z Povolání, Praha - PRACOV. LÉK. 1958, 10/3 (241-245) Graphs 3 Tables 1 Illus. 1

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3200, 3202, 3204, 3206, 3208, 3210, 3212, 3214, 3216, 3218, 3220, 3222, 3224, 3226, 3228, 3230, 3232, 3234, 3236, 3238, 3240, 3242, 3244, 3246, 3248, 3250, 3252, 3254, 3256, 3258, 3260, 3262, 3264, 3266, 3268, 3270, 3272, 3274, 3276, 3278, 3280, 3282, 3284, 3286, 3288, 3290, 3292, 3294, 3296, 3298, 3300, 3302, 3304, 3306, 3308, 3310, 3312, 3314, 3316, 3318, 3320, 3322, 3324, 3326, 3328, 3330, 3332, 3334, 3336, 3338, 3340, 3342, 3344, 3346, 3348, 3350, 3352, 3354, 3356, 3358, 3360, 3362, 3364, 3366, 3368, 3370, 3372, 3374, 3376, 3378, 3380, 3382, 3384, 3386, 3388, 3390, 3392, 3394, 3396, 3398, 3400, 3402, 3404, 3406, 3408, 3410, 3412, 3414, 3416, 3418, 3420, 3422, 3424, 3426, 3428, 3430, 3432, 3434, 3436, 3438, 3440, 3442, 3444, 3446, 3448, 3450, 3452, 3454, 3456, 3458, 3460, 3462, 3464, 3466, 3468, 3470, 3472, 3474, 3476, 3478, 3480, 3482, 3484, 3486, 3488, 3490, 3492, 3494, 3496, 3498, 3500, 3502, 3504, 3506, 3508, 3510, 3512, 3514, 3516, 3518, 3520, 3522, 3524, 3526, 3528, 3530, 3532, 3534, 3536, 3538, 3540, 3542, 3544, 3546, 3548, 3550, 3552, 3554, 3556, 3558, 3560, 3562, 3564, 3566, 3568, 3570, 3572, 3574, 3576, 3578, 3580, 3582, 3584, 3586, 3588, 3590, 3592, 3594, 3596, 3598, 3600, 3602, 3604, 3606, 3608, 3610, 3612, 3614, 3616, 3618, 3620, 3622, 3624, 3626, 3628, 3630, 3632, 3634, 3636, 3638, 3640, 3642, 3644, 3646, 3648, 3650, 3652, 3654, 3656, 3658, 3660, 3662, 3664, 3666, 3668, 3670, 3672, 3674, 3676, 3678, 3680, 3682, 3684, 3686, 3688, 3690, 3692, 3694, 3696, 3698, 3700, 3702, 3704, 3706, 3708, 3710, 3712, 3714, 3716, 3718, 3720, 3722, 3724, 3726, 3728, 3730, 3732, 3734, 3736, 3738, 3740, 3742, 3744, 3746, 3748, 3750, 3752, 3754, 3756, 3758, 3760, 3762, 3764, 3766, 3768, 3770, 3772, 3774, 3776, 3778, 3780, 3782, 3784, 3786, 3788, 3790, 3792, 3794, 3796, 3798, 3800, 3802, 3804, 3806, 3808, 3810, 3812, 3814, 3816, 3818, 3820, 3822, 3824, 3826, 3828, 3830, 3832, 3834, 3836, 3838, 3840, 3842, 3844, 3846, 3848, 3850, 3852, 3854, 3856, 3858, 3860, 3862, 3864, 3866, 3868, 3870, 3872, 3874, 3876, 3878, 3880, 3882, 3884, 3886, 3888, 3890, 3892, 3894, 3896, 3898, 3900, 3902, 3904, 3906, 3908, 3910, 3912, 3914, 3916, 3918, 3920, 3922, 3924, 3926, 3928, 3930, 3932, 3934, 3936, 3938, 3940, 3942, 3944, 3946, 3948, 3950, 3952, 3954, 3956, 3958, 3960, 3962, 3964, 3966, 3968, 3970, 3972, 3974, 3976, 3978, 3980, 3982, 3984, 3986, 3988, 3990, 3992, 3994, 3996, 3998, 4000, 4002, 4004, 4006, 4008, 4010, 4012, 4014, 4016, 4018, 4020, 4022, 4024, 4026, 4028, 4030, 4032, 4034, 4036, 4038, 4040, 4042, 4044, 4046, 4048, 4050, 4052, 4054, 4056, 4058, 4060, 4062, 4064, 4066, 4068, 4070, 4072, 4074, 4076, 4078, 4080, 4082, 4084, 4086, 4088, 4090, 4092, 4094, 4096, 4098, 4100, 4102, 4104, 4106, 4108, 4110, 4112, 4114, 4116, 4118, 4120, 4122, 4124, 4126, 4128, 4130,

PODLIESAK, K.; JOKL, M.; Institute of Hygiene of Work and Occupational Diseases in Prague, Manager Prof. doctor J. Teisinger
[Ustav hygieny prace a chorob z povolani v Praze, veditel prof. dr. J. Teisinger, Dr.Sc.]

"Working Garments for Agriculture."

Prague, Pracovni Lekarstvi, Vol 15, No 7, 1963, pp 286-291

Abstract: The authors suggest that the garments supplied for agricultural employees be designed according to the following basic requirements. The cut should allow all the freedom in every variety of activity; it should be safe for work with all the machines with which the worker will perform his duties; the material of the garment should conform to the needs of hygiene, such as easy dust removal. The authors selected the materials labelled "farmers cord", "working cord" and "many-colored cord" of the National Enterprise Vigona as most suitable. These garments may be adapted for winter use by warm linings that can be buttoned on the inside. 7 Figures, 3 Tables, 3 Western, 2 Czech, 6 Russian references.

1/1

JCKL,M.

The construction of machines from the standpoint of man's
heat comfort. Cesk. hyg. 9 no.1:41-53 F'64.

L. Ustav hygieny prace a chorob z povolani, Praha.

*

SMID, Karel, inz.; JOKL, Miloslav, inz. CSc.

Microclimate of worksites in metallurgical plants. Zdravot tech 7
no.5:208-216 '64.

Protection from radiating heat, designing directives: Branch
Standard UNC 43 9005. Ibid.:236-238.

1. State Institute Hutni projekt Prague and Institute of Industrial
Hygiene and Occupational Diseases, Prague.

L 00263-66 ENT(1)/FS(v)-3 DD

ACCESSION NR: AP5021037

CZ/0078/65/000/008/P020/P020

AUTHOR: Jokl, M. (Engineer, Candidate of sciences) (Prague)

34
F

TITLE: Determination of thermal loads on the human body surface

SOURCE: Vynalezky, no. 8, 1965, p. 20 of supplement

TOPIC TAGS: IR analysis, human physiology

ABSTRACT: A method is described for the determination of thermal loads on individual parts of the surface of the human body by infrared radiation. This method is based on the principle that the thermal flow is constant within the scope of a solid angle, and is characterized by the fact that the space occupied by the individual is divided into solid angles originating in the same pole. An opaque spherical surface of given diameter is placed at the pole, and thermal sensors measure the temperature of the individual parts of a spherical surface bounded by the solid angles. The course of the effective temperatures of heat radiation is calculated by applying thermal balance equations to these parts.

ASSOCIATION: none

SUBMITTED: 05May64

ENCL: 00

SUB CODE: LS, CP

Card 1/1 NO REF SOV: 000

OTHER: 000

L 33553-66 T/EWP(j)/EWP(h)/EWP(1) RM

ACC NR: AP6008395

(A)

SOURCE CODE: CZ/0075/65/000/011/0432/0434

AUTHOR: Jokl, Miloslav (Engineer; Candidate of sciences)

ORG: Institute for Industrial Hygiene and Occupational Diseases, Prague (Ústav
hygieny práce a chorob z povolání)

TITLE: Influence of the permeability of clothing on human thermal comfort ^{AND} work output

SOURCE: Textil, no. 11, 1965, 432-434

TOPIC TAGS: ~~clothing, clothing permeability, ventilated clothing~~, body temperature,
SPECIAL PURPOSE CLOTHING, INDUSTRIAL HYGIENE

ABSTRACT: The need for well-ventilated clothing to permit body perspiration to function as a coolant is presented. Using tables and formulas, the author concludes that to achieve optimum work output, men need to wear well-ventilated clothing. Nonpermeability of clothing can be compensated for by a) increasing the speed of air current, b) reducing steam in the air, and c) lowering the heat-insulating capacity of clothing. If work clothing is not well ventilated — and ventilation decreases with soil — the resistance transmitted is indefinite and the evaporation heat is zero. Orig. art. has: 5 figures, 3 tables, and 11 formulas. [KS]

SUB CODE: 06, 15/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 002/ SOV REF: 001

Card 1/1

UDC: 677.017.56 677.017.72

CZECHOSLOVAKIA

UDC 616-001.9(612.014.43)

JOKL, Miloslav; ROUBAL, Jan; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Reditel) Prof Dr J. TEISINGER.

"Evaluation of the Human Heat Load."

Prague, Pracovni Lekarstvi, Vol 18, No 2, March 66, pp 49 - 53

Abstract [Authors' English summary modified]: A new method of evaluating heat stress is described. Four criteria for the load are used: total heat load, total hyper- or hypo- thermic load, irregularity, and change in the heat load. On the basis of these factors effective work time during a definite period can be determined, the work load under adverse heat conditions evaluated, and the allowable irregularities and changes in the heat load permissible during working activities specified. The total heat load may be calculated on the basis of the total sweat excretion. The change in the temperatures at the beginning, at the end, and changes during the working span are evaluated. 9 Figures, 7 Western, 8 Czech, 1 Russian reference. (Manuscript received 16 Jan 65).

1/1

L 00641-67 EWP(t)/ETI JD

ACC NR: AP6026585

SOURCE CODE: CZ/0034/66/000/002/0077/0083

AUTHOR: Jokl, Miloslav--Iokl, M. (Engineer; Candidate of sciences); Smid, Karel--
Shmid, K. (Engineer)

ORG: Institute for Work Hygiene and Occupational Diseases, Prague (Ustav hygieny
práce a chorob z povolani); Metallurgical Projects, Prague (Hutni projekt) 9
B

TITLE: Temperatures at the production stations in metallurgical plants and their
evaluation 18

SOURCE: Hutnicka listy, no. 2, 1966, 77-83

TOPIC TAGS: metallurgic industry, industrial condition

ABSTRACT: Various methods used at present for the evaluation of temperature conditions in the locations where the operators must work are discussed. Among the methods described P4SR index, heat stress index, and Giovanni's index are evaluated. Better means of the evaluation of the working conditions are suggested. 270 locations in various plants in Czechoslovakia were investigated. Results of this investigation were used to prepare standards for protection against radiant heat. Orig. art. has: 7 figures and 1 table. [Based on authors' Eng. abstract] [JPRS: 34,779]

SUB CODE: 05 / SUBM DATE: none / ORIG REF: 004 / SOV REF: 001
OTH REF: 006

Card 1/1 us

UDC: 669:387.6: 669:613/614

CZECHOSLOVAKIA

JOKL, Miloslav; STVERAK, Jiri; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague; Institute of Aeronautical Medicine (Ustav Leteckeho Zdravotnictvi), Prague.

"Cosmonauts and the Microclimate of the Space Ship."

Prague, Radar, Vol , No 4, Dec 66, pp 44 - 49

Abstract: The important factors in the conditions on board a space ship are: the supply of an adequate amount of oxygen; limitation of the amounts of CO₂ and water; maintaining adequate temperature and pressure limits; control of odors. The apparatus used for these purposes must have a limited weight and function automatically. It must use as little energy as possible and be fire-proof and reliable. In the USSR space ships VOSTOK the limits are: CO₂ 1%, O₂ 21-46%, relative humidity 30-70%. Practically 0.25-0.44, 24 - 27, and 53 to 69% were maintained during manned flights. The cabin pressure was maintained at 755 torr at the beginning and dropped to 740 at the end of the flights. Limits of substances causing odors are given. Apparatus used for the maintaining of the atmosphere in the VOSTOK is described. 8 Figures, 1 Table, no references.

1/1

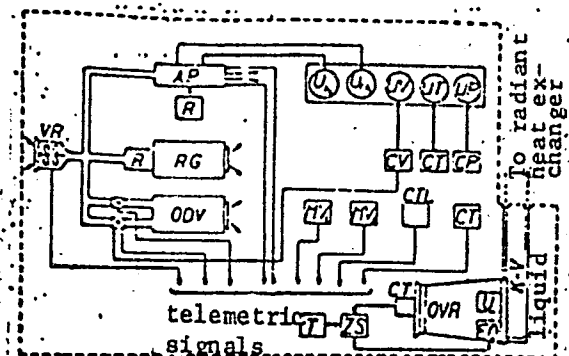
ACC NR: AP7005120

1% ($pCO_2 = 8$ mm Hg). In Vostok-2, CO_2 concentration varied from 0.25—0.44%. Acceptable relative humidity by Soviet standards is 30—70%. In Vostok-1 humidity ranged from 62% at the beginning to 69% at the end. In Vostok-2, humidity varied between 53 and 54%. Soviet standards for permissible air contaminants (in parts per million) are: acrolein - 1.8, ammonia - 50.0, amylacetate - 1.0, chlorine - 3.5, organic sulfides - 0.005, ozone - 0.05, pyridine - 0.25, H_2S - 0.2, and tetrachlormethane - 70.0. Absorption filters used on the Vostoks are described as shockproof, fireproof, chemically stable in oxygen-rich atmospheres at high temperatures, made of porous synthetics, and covered (i.e., surfaced) with hygroscopic material which crystallizes upon exposure to humidity. They also remove dust. Soviets use one kind of filter to remove CO_2 , CO, and H_2S , and a second type which removes NH_3 , H_2S , and other gases (see Fig. 1). The "regeneration unit" (RG) is a sealed container with "regenerative" material (not specified) and a regulatory mechanism (R). Dust- and odor-catching filters are placed on the "regeneration unit" outlet. Ducts leading from the ventilator fan (VR) to the dehumidifier (ODV) are equipped with louvers, one of which is controlled by the humidity sensor, while the other is operated manually. The outlet from the dehumidifier also contains a dust filter. The automatic gas analyzer (AP) registers percentages of O_2 and CO_2 and transmits this data to indicators (UO_2 and UCO_2) on the cabin instrument panel and to ground stations telemetrically. A warning lights up on the panel if safe limits are exceeded. Cabin air containing CO_2 , water vapor, and contaminants is removed from the cabin by the ventilator fan (VR) and moves to

Card 2/4

ACC NR: AP7005120

Fig. 1. Diagram of spaceship cabin climate control equipment for Vostok-1 and -2



RG - regenerating unit; R - regulatory mechanism; ODV - dehumidifier with one automatic and two manual gauges; T - thermostat; CT - temperature sensor; CV - humidity sensor; CP - pressure sensor; VR - ventilator fan with electric motor; MV and MV₂ - humidity meters; UV - humidity indicator; AP - automatic gas analyzer; VO₂ - oxygen content indicator; UCO₂ - indicator of carbon dioxide content of cabin; VT - temperature indicator; UP - pressure indicator; ZS - amplifier, OVR - exhaust fan with a diffusor system for regulating air temperature; K-V - air-liquid exchanger; EO - electrical control for air louver; V - air-flow louver.

Card 3/4

ACC NR: AP7005120

the "regenerating unit" (RG) where CO₂, water vapor, and contaminants are absorbed and a certain amount of oxygen is released. The remaining contaminants are caught by exit filters. The desired O₂ concentration is maintained by the regulator (R). When humidity rises above 70%, an automatic mechanism opens louvers which cause air to pass through the dehumidifier (ODV). When humidity in the cabin drops to 35 ± 5%, the louvers to the dehumidifier close automatically. These louvers can also be controlled manually. Temperature in the cabin is controlled by an air-liquid heat exchanger (K-V) with its own temperature sensor (CT), thermostat (T), amplifier (ZS), exhaust fan (OVR), and electrically controlled louvers (EO and U). The air cycle is open while the liquid cycle is closed. A special device catches condensed water. The desired temperature is set manually on the thermostat (T). When cabin temperature deviates from the set temperature, the electrically controlled louvers (EO and U) alter the amount of air to the air-liquid heat exchanger (K-V) which cools the air. Temperature control can be maintained with an accuracy of ±1.5C. Cabin climate-control equipment is turned on four hours before takeoff for checking out. The cabin is sealed one hour before takeoff. Prior to launching the air pressure in Vostok-2 was 750 mm Hg, the temperature was +19C, and the relative humidity was 62%. These values changed insignificantly during flight. , Orig. art. has: 10 figures and 3 tables. [BM]

SUB CODE: 06/ SUBM DATE: none/ ATD PRESS: 5115

Card 4/4

JOYL, N.; LABOUTKA, K.

Reducing the effect of radiation on the exposed surface. p. 179. (Strojirenstvi, Vol. 7, No. 3, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

CZECHOSLOVAKIA

V. JOKL, Department of Analytical Chemistry, Faculty of Pharmacy,
Comenius University, Bratislava.

"Use of Paper Electrophoresis for the Study of Complex Compounds."

Prague, Ceskoslovenska Farmacie, Vol 12, No 1, Jan 1963; pp 44-46.

Abstract [English summary modified]: Complexes of 1,3-diaminopropanol
2,N,N,N',N'-tetra-acetic and meso-2,3-diaminobutane-N,N,N',N'-tetra-
acetic acid with Fe, Co, Zn, Mn, Cu, Ca and Ba were studied by paper
electrophoresis; equation for complex mobility on strip, 2 structural
formulae, table, 2 graphs, 4 equations; 3 references: 2 Czech theses,
conference report.

1/1

~~VLADIMIR, JOKL~~
JOKL, VLADIMIR

Analytical evaluation of 1-amino-2-oximes, Arnold Okaz
and Vladimir Jokl (Přirodovědecká fak., Brno, Czech.).
Chem. Zvesti, 1953, 7, 10 (1953). — PAC (NO₂CH₂NH₂ (I)
and 3-aminocamphor oxime (II) and their Cu, Ni, and Co
salts were prepd. BzCH₂NH₂.HCl, m. 192°, (13.5 g.)
added to 7 g. H₂NOH.HCl and 11.5 g. KOH in 50 ml.
H₂O yielded 3 g. I, m. 131° (from EtOH). I in acetic
EtOH soln. with CuCl₂ and CuBr₂ gave salts C₁₂H₁₄N₂O.
CuX₂. No salt was formed from NiCl₂. II, m. 145°,
gave similarly Cu salts, C₁₂H₁₄N₂O.CuCl₂, C₁₂H₁₄N₂O.Cu.
(OH)NO₃, and ill-defined salts with Co and Ni, CuCl₂
and CuBr₂ salts of I take up 2 NH₄/mol. M. Hudlický

JOKL, V.

5

V
Q11 536. Electrophoretic separation of sulphonamides.
A. Okle and V. Joki (Inst. of Anal. Chem., Faculty
of Nat. Sci., Brno, Czechoslovakia). *Czechoslov.
Farmac.*, 1958, 4 (4), 218-220. The electrophoresis
of a number of commercial sulphonamides was
carried out on paper strips (10 cm x 27 cm),
with an e.m.f. of 120 V, and H₂SO₄, NaOH, and
various buffer solutions to give electrolytes of pH
from 1 to 12. The detection (after 2 to 5 hr. of
current flow) of the separated sulphonamides was
carried out with a soln. of 1 per cent. p-dimethyl-
aminobenzaldehyde in 2 per cent. HCl, as detection
by diazotisation was not achieved. The mobilities
obtained are not absolute, and endosmosis of the
electrolyte towards the cathode at pH > 4.7 must
also be taken into account. The largest mobility
differences were found in alkali soln., a borate
buffer of pH 8.5 being particularly useful for the
separation.

A. O. JAKUBOVIC

W-1

COUNTRY : Czechoslovakia
CATEGORY :

H-17

ABS. JOUR. : RZKhim., No. 21 1959, No.

75817

AUTHOR : Jokl, V. and Janeckova, E.

INSTR. : Not given

TITLE : A Reaction for the Identification of Barbiturates

ORIG. PUB. : Ceskoslov Farmac, 7, No 7, 397-398 (1958)

ABSTRACT : The separation and identification of barbiturates and hydantoins is based on the Zwicker reaction. The chromatogram is immersed in a solution of $[Cu(C_5H_5N)_2]^{2+}$ followed by immersion in a dilute solution of the Na_2 -salt of ethylenediaminetetraacetic acid, which suppresses the interfering background. The spots are identified by dipping the chromatograms in a solution of sodium diethyldithiocarbamate. The sensitivity is equal to that of the spot test, i.e., 5 micrograms in the iden-

JOKL, V.; TOMAN, V.

Contribution to the chemical aspects of Farrow's reaction for
barbiturates. Cesk. farm. 13 no.7:361-366 S '61.

1. Katedra analyticke chemie Farmaceuticke fakulty University
Komenskeho, Bratislava.

L 1637-66

ACCESSION NR: AP5024272

CZ/0013/64/000/008/0584/0596/6

AUTHOR: Jokl, V. (Yokl, V.) (Doctor of natural sciences, Pharmacist, Candidate of sciences) (Bratislava); Majer, J. (Mayer, Ya.) (Docent, Doctor of natural sciences, Candidate of sciences) (Bratislava); Masachova, M. (Masachova, M.) (Graduate pharmacist,) (Bratislava)

TITLE: Study of complex compounds in solutions by means of electrophoresis on paper (III). Chelation by alcoholic hydroxyl

SOURCE: Chemické zvesti, ¹⁸no. 8, 1964, 584-596

TOPIC TAGS: chelaton, glycine, chelate compound, electrophoresis, solution property

ABSTRACT: The curves of the electrophoretic mobility of glycine complexes were determined by measurements; N,N-bis(hydroxy ethyl)-glycine, imino-di-acetic acid, and N-hydroxy-ethyl imino di-acetic acid, with a number of di- and tri- valent central ions were studied. On this basis the probable structure and approximate constants of the stability of the complexes were determined. Substitution by hydroxy-ethyl group is discussed, and the character of the chelates prepared in this manner is described. Orig. art. has: 4 formulas, 6 graphs, 2 tables.

Card 1/2

L 1637-66

ACCESSION NR: AP5024272

ASSOCIATION: Katedra analytickej chémie Farmaceutickej fakulty Univerzity Komenského,
Bratislava (Department of Analytical Chemistry, Pharmaceutical Faculty, Comenius
University)

SUBMITTED: 05Mar64

ENCL: 00

SUB CODE: OC, GC

NR REF SOV: 000

OTHER: 021

JPRS

Card 2/2

JOKL, Vladimir, doc. RNDR, CSc.; MAJER, Jaroslav, doc. PhDr, CSc.

Study on complex compounds in solutions by means of paper electrophoresis. Pts.4,5. Chem'zvesti 19 no.4:249-258, 281-286 '65.

1. Chair of Analytical Chemistry of Pharmaceutical Faculty at Komensky University, Bratislava, ulica Odbojarov 12. Submitted May 5, 1964.

L 10827-66

SOURCE CODE: CZ/0043/55/000/004/0249/0258

ACC NR: AP6004439

AUTHOR: Jokl, Vladimir--Yokl, V. (Doctor; Doctor of natural sciences; Pharmacist; 17
Candidate of sciences); Majer, Jaroslav--Mayer, Ya. (Doctor; Pharmacist; Candidate 5
of sciences)

ORG: Department of Analytical Chemistry, Pharmaceutical Faculty, Comenius University,
Bratislava (Katedra analytickej chemie Farmaceutickej fakulty Univerzity Komenského)

TITLE: Study of complex compounds in solution by means of paper electrophoresis.
IV. Complexes of 1,3-diaminopropanol (2)-N,N',N'-tetraacetic acid

SOURCE: Chemické zvesti, no. 4, 1965, 249-258

TOPIC TAGS: intermolecular complex, coordination chemistry, organic nitrogen
compound, acetic acid, hydroxyl group, electrophoresis, paper chromatography

ABSTRACT: 1,3-Diaminopropanol(2)-tetraacetic acid (DPTA) is found
generally as a six-donor chelate-forming agent, and its complexes
are formed similarly to those of ethylenediaminetetraacetic acid
(EDTA) by first forming mononuclear chelates having a 1:1 metal
to agent ratio: the alcohol group of DPTA does not take part in
the chelate formation. The Pb chelate Pb_2A^{4-} is stable at $pH > 4$;
during its formation a proton of the hydroxyl group is released
and DPTA behaves as a 7-donor agent. FeA^{3-} also probably releases
a hydroxyl group above $pH 4$. Chelates of DPTA are less stable
than those of EDTA: Mg chelate is very unstable. The authors thank Prof.-
Engr. S. Stankoviansky for the encouraging discussions concerning this work. Orig.
art. has: 2 figures, 5 formulas, and 2 tables. /JPRS/
SUB CODE: 07 / SUM DATE: 25May64 / ORIG REF: 007 / OTH REF: 011
Card 1/1